

**d.) Remarks.**

By this response, claim 16 has been amended. Therefore claims 1-22 and 24-30 remain pending. Claims 1-15, 20-22, and 24-30 have previously been allowed.

**Remarks Regarding the Amendments to Claim 16**

Claim 16 has been amended to include the elements of “recording outputs of a solid-state detector as a function of time and recording frequency markers as a function of time; and converting the recorded outputs of the solid-state detector into a function of frequency using the recorded frequency markers.” Support for this amendment can be found throughout the specification and the claims.

**Remarks Regarding Claims 16-19**

Claims 16-19 stand rejected under 35 USC 103(a) based on Schafer (Berichte der Bunsen-Gesellschaft, 1983), in view of van der Weide (SPIE, 1999 or NATO Science Series, II, 2001) and in further view of Zhang and Crosmer or Des Marais. Claims 16-19 further stand rejected under 35 USC 103(a) based on Szpunar-Lobinska in view of Crosmer or DesMarais. Applicant respectfully traverses the rejections.

Applicant respectfully maintains that none of the references of record recite “recording outputs of a solid-state detector as a function of time and recording frequency markers as a function of time; and converting the recorded outputs of the solid-state detector into a function of frequency using the recorded frequency markers.” Nevertheless, Applicant has amended claim 16 and, thus, this rejection is moot.

**Conclusion**

In view of the foregoing amendments and/or remarks, favorable reconsideration of the application and issuance of a Notice of Allowance is respectfully requested.

If there are any issues remaining which the Examiner believes could be resolved through either a Supplemental Response or an Examiner's Amendment, the Examiner is respectfully requested to contact the undersigned at the number below.

The Commissioner is hereby authorized to charge Deposit Account No. 14-1437 for any additional fees deemed necessary, referencing Attorney Docket No. 8107.002.US; and Applicant hereby petitions for any needed extension of time not otherwise accounted for with this submission.

Respectfully submitted,  
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